Don't Forget to Check Ring Gap Clearance

When installing new piston rings, the question of proper ring gap clearance frequently arises. The clearance as stated by one authority or manufacturer may be different from that recommended by another; the important point for mechanics to remember, however, is that there should be *no less than a minimum of* .003"-.005" ring gap per inch of cylinder bore diameter.

In a recent Service Bulletin on this subject, Sealed Power recommended the following gap tolerances:

Ring Size	*Gap Opening Not Less Than*	*Gap Opening Can Be As Much As*
1 - 2 9/16"	.005	.013
2 5/8 - 2 31/32"	.008	.016
3 - 3 31/32"	.012	.020
4 - 5"	.015	.023
5 1/16 - 6"	.018	.033
6 1/16 - 7"	.018	.038

Make certain that any ring checked for gap tolerance is in a section of the bore which is absolutely standard. For example, if you were to check a ring in a section of the bore which is .002" over, this would automatically increase gap .006". Therefore, if the ring had an .018" gap as received, and was checked in a bore .002" over standard, the gap would show .024" clearance.

A slight increase in gap opening above this figure would not produce any adverse effects on performance; however, should there be an insufficient gap clearance, this could result in serious trouble because of ring butting.

Steering Shaft Noise

Chevrolet Service News reports that a clicking noise heard on turns, in some instances, is the result of the steering shaft connecting assembly bolt catching on the dip stick. The noise resembles the noise caused by a turn signal cancelling cam riding against the cancelling pawl.

If the noise is heard when signal lever is in the neutral position, check the oil dip stick. If the dip stick has turned, it contacts the steering connecting assembly bolt. When the steering wheel is turned, a clicking noise, such as described above, will result.

IS YOUR ADDRESS LABEL PINK?

If it is, it will pay you to turn to page 64 of this issue for an important message.

Lifting Equipment for Every Service Need

FLEET Hydraulic HAND JACKS

9 CAPACITIES:

1½, 3, 5, 8, 12, 20, 30, 50, 100 TONS

Whatever your lifting requirements, there's a FLEET Hydraulic Hand Jack that's designed and rated for your particular job. Fully guaranteed and *individually* tested under load 50% greater than rated capacity to insure dependable, trouble-free service. All sizes operate with equal efficiency in horizontal or vertical position.

Your N.A.P.A. Jobber is a Good Man to Know! See him for the complete line of FLEET Lifting Equipment.

NAPA Assurance of Quality

EDGEWATER AUTOMOTIVE DIVISION

SAINT JOSEPH, MICHIGAN

Auto Refinishing . . .

(Continued from page 30)

in the largest automotive plants in the country.

One of the spray booth's outstanding features is the lighting. Fluorescent light fixtures are mounted completely outside and above the booth to prevent the slightest hazard from sparks or electrical shorts. By means of skylights, the interior of the booth receives maximum illumination as there is nothing more important than ample, even light for a spray painter to see missed spots without any trouble.

Each of the doors leading to the spray booth contains twelve Dustop filter cells made of spun glass, making the most of the door's surfaces as an air filter. All air entering the booth must pass through the filter cells. Thus damage to wet coatings from dust or impurities is practically nil.

When a car is completely sprayed, baking begins at once. Doors at the rear of the booth leading to the oven compartment are opened. Once inside the oven compartment, the car is straddled by a mobile infrared oven that rolls into place on a track.

COMPLETELY AUTOMATIC

Operation of the oven is completely automatic. After the spray painter starts the electric motor, the oven moves back and forth along its track. The car is stationary during baking. As the oven goes past the car, its movement is reversed by a cam-tripped switch. By having the oven make seven or eight passes over the car, an excellent finish is attained. Each trip requires 5 min., and the time per trip is controlled by an electronic timer. The presence of an attendant is not required, which frees an extra man to do the next surface preparation or touch-up job. A total of 108 sealed beam infrared lamps rated at 250 watts each are used in the mobile oven.

"Infrared radiation penetrates the enamel all the way through right to the bottom of the coating," Mr. Prell states. "As a result, the enamel is baked hard in a relatively short time."

One good customer relations feature is a viewing window where the car owner can see his vehicle being sprayed. Mr. Prell notes that customers have been attracted by the new spray booth ever since its installation.

"Since we've been using this new installation, I've heard many of them remark that their refinished cars seem unusually glossy, and the finish is harder and more durable. That's what I mean by customer satisfaction."

Lifting Equipment for Every Service Need

FLEET Hydraulic MOBILE SHOP CRANES

3 CAPACITIES
½, ¾ and 1 TON

2 STYLES
Floor and Truck Mounted
Manual-Hydraulic and Electric-Hydraulic

These handy cranes can be moved anywhere in the shop to make tough jobs easier. Heavy lifting, loading and unloading become simple, one-man projects. You save time, money and eliminate backaches and accidents when lifting and moving heavy machinery, crates and boxes. Pull a motor without removing the hood.

One-ton truck-mounted crane may also be mounted on floor truck or in mounting wells located at several spots in shop, loading platform, machine tools, etc. for maximum use. In manual-hydraulic or electric-hydraulic (6 or 12 volt) models.

Your N.A.P.A. Jobber is a Good Man to Know! See him for the complete FLEET line of lifting equipment.

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